

Patent Abstracts of Japan

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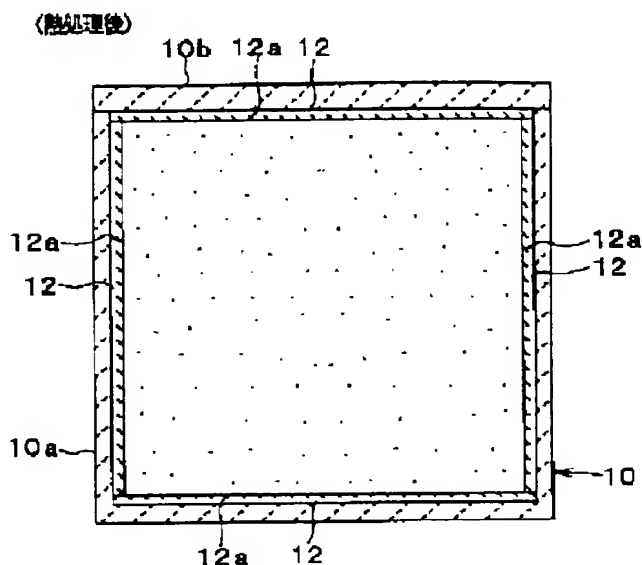
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TITLE : COATING OF TANTALUM CARBIDE
AND SINGLE CRYSTAL PRODUCTION
APPARATUS PRODUCED BY THE
COATING



ABSTRACT : PROBLEM TO BE SOLVED: To provide a method for uniformly coating tantalum carbide on the inner wall of a crucible installed in a single crystal production apparatus.

SOLUTION: A tantalum plate 12 is arranged on the inner wall of a graphite crucible 10. A carbon powder is loaded so that the carbon powder may be brought into contact with the tantalum plate 12 and may cover the tantalum plate 12. The graphite crucible 10 is heated to carbonize the tantalum plate 12, and to coat the inner wall of the graphite crucible 10 with tantalum carbide 12a. The tantalum plate 12 is coated with homogeneous tantalum carbide 12a by loading the carbon powder so as to be brought into contact with the tantalum plate 12 and carbonizing the tantalum plate 12 in the method for coating the tantalum carbide.

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